GCTTCCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCCTGCAGGGCATTCCA GAAAGATGAGGATATTTGCTGTCTTTATATTCATGACCTACTGGCATTTGCTG AACGCATTTACTGTCACGGTTCCCAAGGACCTATATGTGGTAGAGTATGGTA GCAATATGACAATTGAATGCAAATTCCCAGTAGAAAAACAATTAGACCTGGC TGCACTAATTGTCTATTGGGAAATGGAGGATAAGAACATTATTCAATTTGTGC GGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACTTCAGATCACAGA TGTGAAATTGCAGGATGCAGGGGTGTACCGCTGCATGATCAGCTATGGTGGT GCCGACTACAAGCGAATTACTGTGAAAGTCAATGCCCCATACAACAAAATCA ACCAAAGAATTTTGGTTGTGGATCCAGTCACCTCTGAACATGAACTGACATGT CAGGCTGAGGCCTACCCCAAGGCCGAAGTCATCTGGACAAGCAGTGACCATC TTTTCAATGTGACCAGCACACTGAGAATCAACAACAACAACTAATGAGATTTT CTACTGCACTTTTAGGAGATTAGATCCTGAGGAAAACCATACAGCTGAATTG GTCATCCCAGGTAATATTCTGAATGTGTCCATTAAAATATGTCTAACACTGTC CCCTAGCACCTAGCATGATGTCTGCCTATCATAGTCATTCAGTGATTGTTGAA TAAATGAATGAATAACACTATGTTTACAAAATATATCCTAATTCCTCAC CTCCATTCATCCAAACCATATTGTTACTTAATAAACATTCAGCAGATATTTAT GGAATAAAAAAAAAAAAAAAAAAAA

CGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCCTGCAGGGCATTCCAGAAAGA TGAGGATATTTGCTGTCTTTATATTCATGACCTACTGGCATTTGCTGAACGCATT TACTGTCACGGTTCCCAAGGACCTATATGTGGTAGAGTATGGTAGCAATATGAC AATTGAATGCAAATTCCCAGTAGAAAAACAATTAGACCTGGCTGCACTAATTGT CTATTGGGAAATGGAGGATAAGAACATTATTCAATTTGTGCATGGAGAGGAAG ACCTGAAGGTTCAGCATAGTAGCTACAGACAGAGGGCCCGGCTGTTGAAGGAC CAGCTCTCCCTGGGAAATGCTGCACTTCAGATCACAGATGTGAAATTGCAGGAT GCAGGGGTGTACCGCTGCATGATCAGCTATGGTGGTGCCGACTACAAGCGAAT TACTGTGAAAGTCAATGCCCCATACAACAAAATCAACCAAAGAATTTTGGTTGT GGATCCAGTCACCTCTGAACATGAACTGACATGTCAGGCTGAGGGCTACCCCA AGGCCGAAGTCATCTGGACAAGCAGTGACCATCAAGTCCTGAGTGGTAAGACC ACCACCACTACTTCCAAGAGAGAGAGAGCTTTTCAATGTGACCAGCACACT GAGAATCAACAACAACTAATGAGATTTTCTACTGCACTTTTAGGAGATTAGA TCCTGAGGAAAACCATACAGCTGAATTGGTCATCCCAGAACTACCTCTGGCACA TCCTCCAAATGAAAGGACTCACTTGGTAATTCTGGGAGCCATCTTATTATGCCTT GAAAAATGTGGCATCCAAGATACAAACTCAAAGAAGCAAAGTGATACACATTT GGAGGAGACGTAATCCAGCATTGGAACTTCTGATCTTCAAGCAGGGATTCTCA GCCCGTGGGATGCAGGCAATGTGGGACTTAAAAGGCCCAAGCACTGAAAATG GAACCTGGCGAAAGCAGAGGAGGAGAATGAAGAAGATGGAGTCAAACAGGG AGCCTGGAGGGAGACCTTGATACTTTCAAATGCCTGAGGGGCTCATCGACGCC TGTGACAGGGAGAAAGGATACTTCTGAACAAGGAGCCTCCAAGCAAATCATCC ATTGCTCATCCTAGGAAGACGGGTTGAGAATCCCTAATTTGAGGGTCAGTTCCT GCAGAAGTGCCCTTTGCCTCCACTCAATGCCTCAATTTGTTTTCTGCATGACTGA TGAGTCTGTGAGGTCTTCTTGTCATGTGAGTGTGGTTGTGAATGATTTCTTTTGA AGATATATTGTAGTAGATGTTACAATTTTGTCGCCAAACTAAACTTGCTGCTTAA

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292 secreted (245 amino acids)

Signal/IgV/IgC/hydrophilic tail (a) (b) (c) (d) Ig cysteines in large bold

MRIFAVFIFMTYWHLLNA (signal)

FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKN IIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQD AGVYRCMISYGGADYKRITVKVNAPY (1gv) NKINQRILVVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKT TTTNSKREEKLFNVTSTLRINTTTNEIFYCTFRRLDPEENHTAEL VIP (IgC)

GNILNVSIKICLTLSPST (hydrophilic tail)

FIGURE 3

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292 membrane (290 amino acids)

Signal/IgV/IgC/transmembrane (underlined) plus cytoplasmic

Ig cysteines in large bold

MRIFAVFIFMTYWHLLNA (signal)

FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKN IIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQD AGVYRCMISYGGADYKRITVKVNAPY (18v) NKINQRILVVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKT TTTNSKREEKLFNVTSTLRINTTNEIFYCTFRRLDPEENHTAEL

ELPLAHPPNER<u>THLVILGAILLCLGVALTFIF</u>RLRKGRMMDVKKC GIQDTNSKKQSDTHLEET (transmembrane plus cytoplasmic)

AGATAGTTCCCAAAACATGAGGATATTTGCTGGCATTATATTCACAGCCTGC TGTCACTTGCTACGGGCGTTTACTATCACGGCTCCAAAGGACTTGTACGTG GTGGAGTATGGCAGCAACGTCACGATGGAGTGCAGATTCCCTGTAGAACG GGAGCTGGACCTGCTTGCGTTAGTGGTGTACTGGGAAAAGGAAGATGAGC AAGTGATTCAGTTTGTGGCAGGAGGAGGAGGACCTTAAGCCTCAGCACAGCA ACTTCAGGGGGAGAGCCTCGCTGCCAAAGGACCAGCTTTTGAAGGGAAAT GCTGCCCTTCAGATCACAGACGTCAAGCTGCAGGACGCAGGCGTTTACTGC TGCATAATCAGCTACGGTGGTGCGGACTACAAGCGAATCACGCTGAAAGTC AATGCCCCATACCGCAAAATCAACCAGAGAATTTCCGTGGATCCAGCCACTT CTGAGCATGAACTAATATGTCAGGCCGAGGGTTATCCAGAAGCTGAGGTAA CTTCCCGGACAGAGGGGATGCTTCTCAATGTGACCAGCAGTCTGAGGGTCA ACGCCACAGCGAATGATGTTTTCTACTGTACGTTTTGGAGATCACAGCCAG TCATTGTAGTGTCCACGGTCCTCCTCTTCTTGAGAAAACAAGTGAGAATGCT AGATGTGGAGAAATGTGGCGTTGAAGATACAAGCTCAAAAAACCGAAATGA TACACAATTCGAGGAGACGTAAGCAGTGTTGAACCCTCTGATCGTCGATTG GCAGCTTGTGGTCTGTGAAAGAAGGGCCCATGGGACATGAGTCCAAAGAC TCAAGATGGAACCTGAGGGAGAGAACCAAGAAAGTGTTGGGAGAGGAGCC TGGAACAACGGACATTTTTTCCAGGGAGACACTGCTAAGCAAGTTGCCCAT CAGTCGTCTTGGGAAATGGATTGAGGGTTCCTGGCTTAGCAGCTGGTCCTT GCACAGTGACCTTTTCCTCTGCTCAGTGCCGGGATGAGAGATGGAGTCATG AGTGTTGAAGAATAAGTGCCTTCTATTTATTTTGAGTCTGTGTTCTCACTT TGGGCATGTAATTATGACTGGTGAATTCTGACGACATGATAGATCTTAAGAT GTAGTCACCAAACTCAACTGCTGCTTAGCATCCTCCGTAACTACTGATACAA GCAGGGAACACAGAGGTCACCTGCTTGGTTTGACAGGCTCTTGCTGTCTGA CTCAAATAATCTTTATTTTTCAGTCCTCAAGGCTCTTCGATAGCAGTTGTTCT **GTATCAGCCTTATAGGTGTCAGGTATAGCACTCAACATCTCATCTCATTACA** ATAGCAACCCTCATCACCATAGCAACAGCTAACCTCTGTTATCCTCACTTCA TAGCCAGGAAGCTGAGCGACTAAGTCACTTGCCCACAGAGTATCAGCTCTC AGATTTCTGTTCTTCAGCCACTGTCCTTTCAGGATAGAATTTGTCGTTAAGAA TTGTGCACTGTGCCTCTGAGCATAAAGATGTACGCCGGAGTACCGGT CGGACATGTTTATGTGTGTTAAATACTCAGAGAAATGTTCATTAACAAGGAG CTTGCATTTTAGAGACACTGGAAAGTAACTCCAGTTCATTGTCTAGCATTAC ATTTACCTCATTTGCTATCCTTGCCATACAGTCTCTTGTTCTCCATGAAGTGT CATGAATCTTGTTGAATAGTTCTTTTATTTTTTAAATGTTTCTATTTAAATGATA TTGACATCTGAGGCGATAGCTCAGTTGGTAAAACCCTTTCCTCACAAGTGTG AAACCCTGAGTCTTATCCCTAGAACCCACATAAAAAACAGTTGCGTATGTTT GTGCATGCTTTTGATCCCAGCACTAGGGAGGCAGAGGCAGATCCTG AGCTCTCATTGACCACCCAGCCTAGCCTACATGGTTAGCTCCAGGCCTACA CACACACACACACACACACACACTGTACTCATAGACCTAAGTGCACC

CTCAGAATGGTCCCCAAGACAAGAAGAAGAAGAAAAACACCAAACCAGCTCTA TTCCCTCAGCCTATCCTCTACTCCTTCCTAGAAGCAACTACTATTGTTTTT птептеттеттеттеттеттеттестсеттестсетте CTTCCTTCCTTTCTTTCTTTCTTTTTTTCTGTCTATCTGTACCTAAA GATATTTATGCTGCTTCCAGAATGGATCTAAAGCTCTTTGTTTCTAGGTTTTC TCCCCCATCCTTCTAGGCATCTCTCACACTGTCTAGGCCAGACACCATGTCT GCTGCCTGAATCTGTAGACACCATTTATAAAGCACGTACTCACCGAGTTTGT ATTTGGCTTGTTCTGTGTCTGATTAAAGGGAGACCATGAGTCCCCAGGGTA CACTGAGTTACCCCAGTACCAAGGGGGAGCCTTGTTTGTGTCTCCATGGCA GAAGCAGGCCTGGAGCCATTTTGGTTTCTTCCTTGACTTCTCCAAACACAG ACGCCTCACTTGCTCATTACAGGTTCTCCTTTGGGAATGTCAGCATTGCTCC TTGACTGCTGCCCTGGAAGGAGCCCATTAGCTCTGTGTGAGCCCTTG ACAGCTACTGCCTCCCTTACCACAGGGGCCTCTAAGATACTGTTACCTAGA GGTCTTGAGGATCTGTGTTCTCTGGGGGGGAGGAAAGGAGGAGGAACCCAG AACTTTCTTACAGTTTTCCTTGTTCTGTCACATGTCAAGACTGAAGGAACAG GCTGGGCTACGTAGTGAGATCCTGTCTCAAAGGAAAGACGAGCATAGCCGA ACCCCGGTGGAACCCCCTCTGTTACCTGTTCACACAAGCTTATTGATGAGT CTCATGTTAATGTCTTGTTTGTATGAAGTTTAAGAAAATATCGGGTTGGGCAA CACATTCTATTTATTTATTTGAAATCTTAATGCCATCTCATGGTGTTGG ATTGGTGTGGCACTTTATTCTTTTGTGTTGTGTATAACCATAAATTTTATTTTG AAAAAAAAAAA

Figure 5 (continued)

MRIFAGIIFTACCHLLRAFTITAPKDLYVVEYGSNVTMECRFPVERELDLLALVVYWEKEDEQVIQFVAGEE DLKPQHSNFRGRASLPKDQLLKGNAALQITDVKLQDAGVYCCIISYGGADYKRITLKVNAPYRKINQRISV DPATSEHELICQAEGYPEAEVIWTNSDHQPVSGKRSVTTSRTEGMLLNVTSSLRVNATANDVFYCTFWR SQPGQNHTAELIIPELPATHPPQNRTHWVLLGSILLFLIVVSTVLLFLRKQVRMLDVEKCGVEDTSSKNRN DTQFEET.

Figure 6

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MRIFAGIIFTACCHLLRAFTITAPKDLYVVEYGSNVTMECRFPVERELDLLALVVYWEKE 60 9 DEQVIQFVAGEEDLKPQHSNFRGRASLPKDQLLKGNAALQITDVKLQDAGVYCCIISYGG 120 DKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGG 120 м87.4 121 adykritlkvnapyrkinqri-svdpatsehelicqaegypeaeviwtnsdhqpvsgkrs 179 467-4121 ADYKRITVKVNAPYNKINQRILVVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTT 180 mβ∂.4 180 VTTSRTEGMLLNVTSSLRVNATANDVFYCTFWRSQPGQNHTAELIIPELPATHPPQNRTH 239 67.4 181 TINSKREEKLFNVTSTLRINTTINEIFYCTFRRLDPEENHTAELVIPELPLAHPPNERTH 240 MRIFAVFIFMTYWHLLNAFTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWEME HLL AFT+T PKDLYVVEYGSN+T+EC+FPVE++LDL AL+VYWE E D+ +IQFV GEEDLK QHS++R RA L KDQL GNAALQITDVKLQDAGVY C+ISYGG T S+ E L NVTS+LR+N T N++FYCTF R P +NHTAEL+IPELP HPP RTH ADYKRIT+KVNAPY KINQRI VDP TSEHEL CQAEGYP+AEVIWT+SDHQ +SGK + ~67.4 240 WVLLGSILLFLIVVSTVLLFLRKQVRMLDVEKCGVEDTSSKNRNDTQFEET 290 467-4 241 LVILGAILLCLGVALTFIFRLRKG-RMMDVKKCGIQDTNSKKQSDTHLEET 290 V+LG+ILL L V T + LRK RM+DV+KCG++DT+SK ++DT mB7-4 61 WB7.4 61 487-4 1 m87-4 1

Figure 7

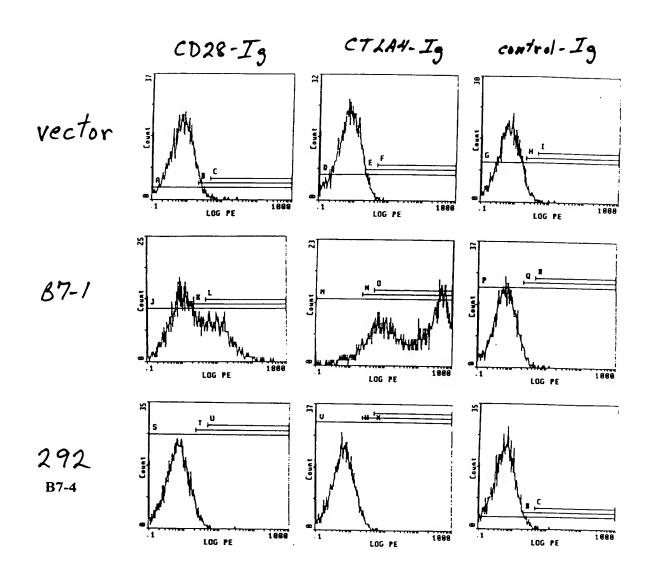


Figure 8

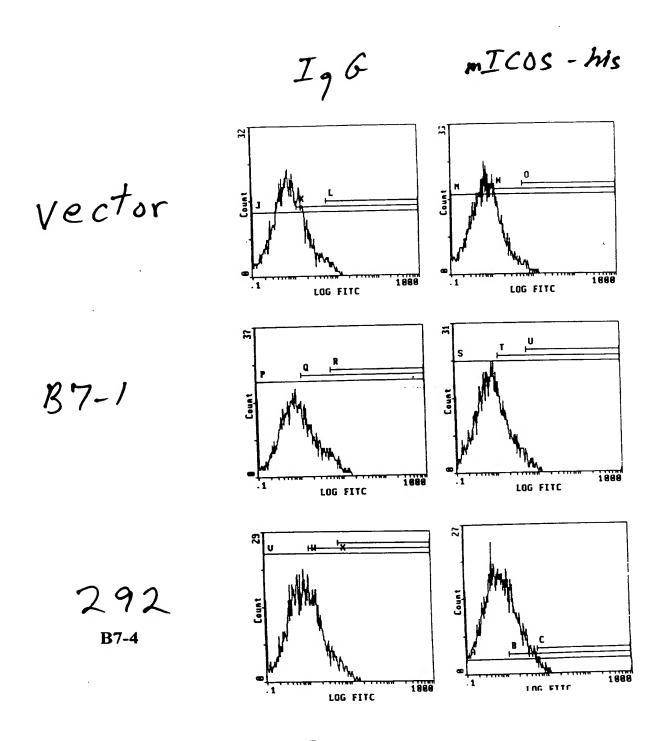
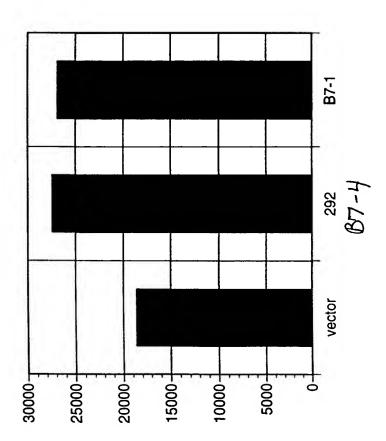


Figure 9

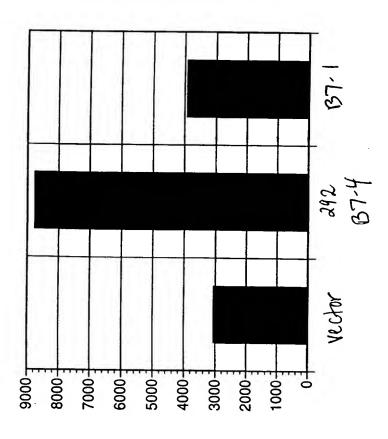
Figure 10





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